

## Auxilliary Contacts, Time Delay Blocks, Mechanical Latching Blocks

### Instantaneous Time Delay Contact Characteristics

| Type  |   | UNIT   | TA1D   | TA2D        | TA3D        | TA8D |
|---|---|--------|--------|-------------|-------------|------|
| Number of contacts  |   |        | 2 or 4 | 2           | 2           | 2    |
| Rated operational Voltage (Ue)                                    | Upto                                    | V      |        | 660         |             |      |
| Rated Insulation Voltage (Ui)                                     | Conforming to IEC 60947-1               | V      |        | 690         |             |      |
|   | Conforming to GSA C22-2 No. 14          | V      | 6 00   | -           | -           | -    |
| Rated Thermal current (Ith)                                       | For ambient temperature <40°C           | A      |        | 10          |             |      |
| Frequency of operational current                                  |   | Hz     |        | 25...400    |             |      |
| Minimum switching capacity  | U min                                   | V      |        | 17          |             |      |
|   | I min                                   | mA     |        | 5           |             |      |
| Short time rating   | Permissible for                         | 1s     | A      | 100         |             |      |
|   |   | 500ms  | A      | 120         |             |      |
|   |   | 100 ms | A      | 140         |             |      |
| Insulation resistance   |   | MΩ     |        | >10         |             |      |
| Time Delay  | Ambient air temperature for operation°C |        |        | -40...+70   |             |      |
| (TA2D & TA3D contact blocks)                                      | Repeat accuracy                         |        | -      | ± 5%        | ± 5%        |      |
| Accuracy only valid for setting range indicated on the front face | Drift upto 0.5 million operating cycles |        |        | + 15%       | + 15%       |      |
|   | Drift depending on ambient air temp.    | -      |        | 0.25% per°C | 0.25% per°C | -    |
| Mechanical Life   | In millions of operating cycles         |        | 30     | 5           | 5           | 30   |



TA1-DN22



TA8-DN11



TA1-DN20



TA2-DT2

### Standard, instantaneous auxilliary contact blocks

| No. of Contacts | Contacts |    | Snap-On Mounting  | Catalog Number   |         |
|-----------------|----------|----|---|--|---------|
|                 | NO       | NC |   |  |         |
| 4               | 2        | 2  | To the front of<br>TC1D09~D95<br>LC1F115A~800A<br>TP1D09~D80<br>TP1-DC09/12/25<br>TCA2DN/TCA3DN | TA1DN22  |         |
|                 | 1        | 3  |   | TA1DN13  |         |
|                 | 4        | 0  |   | TA1DN40  |         |
|                 | 0        | 4  |   | TA1DN04  |         |
|                 | 3        | 1  |   | TA1DN31  |         |
| 2               | 1        | 1  |   | TA1DN11  |         |
|                 | 2        | 0  |   | TA1DN20  |         |
|                 | 0        | 2  |   | TA1DN02  |         |
| 1               | 1        | 0  |   | To the front of<br>TC1D09~D95<br>TP1D09~D80<br>TP1DC09/12/25 | TA1DN10 |
|                 | 0        | 1  |   | TA1DN01  |         |
| 2               | 1        | 1  | To the side of<br>TC1D09~D95<br>TP1D09~D80<br>TP1DC09/12/25<br>TCA2DN / TCA3DN                  | TA8DN11  |         |
|                 | 2        | 0  | TA8DN20   |  |         |

### Pneumatic Timer Block (Front Mounted)

| Description | Contacts |    | Range       | Catalog Number |
|-------------|----------|----|-------------|----------------|
|             | NO       | NC |             |                |
| ON Delay    | 1        | 1  | 0.1 ... 3s  | TA2-DT0        |
| ON Delay    | 1        | 1  | 0.1 ... 30s | TA2-DT2        |
| ON Delay    | 1        | 1  | 10 ... 180s | TA2-DT4        |
| OFF Delay   | 1        | 1  | 0.1 ... 3s  | TA3-DR0        |
| OFF Delay   | 1        | 1  | 0.1 ... 30s | TA3-DR2        |
| OFF Delay   | 1        | 1  | 10 ... 180s | TA3-DR4        |
| On Delay    | 1        | 1  | 1 ... 30s*  | TA2-DS2        |

\* With switching time of 40msec + 15 msec between the opening of NC contact to the closing of NO contact (for Star Delta application)